

Effective Use of Rewards & Sanctions

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Basic Terminology

	SANCTION	REWARD
GIVE	Punishment	Positive Reinforcement
TAKE	Negative Reinforcement	Response Cost

Certainty

- FR-1 schedule for initiation
- Reliable detection
- Second chances



Form **1040** Department of the Treasury—Internal Revenue Service **U.S. Individual Income Tax Return 2002** (99) IRS Use Only—Do not write or staple in this space.

OMB No. 1545-0074

Label (See instructions on page 21.)
Use the IRS label. Otherwise, please print or type.
Presidential Election Campaign (See page 21.)

For the year Jan. 1-Dec. 31, 2002, or other tax year beginning 2002, ending 2002

Your first name and initial Last name
 If a joint return, spouse's first name and initial Last name
 Home address (number and street). If you have a P.O. box, see page 21. Apt. no.
 City, town or post office, state, and ZIP code. If you have a foreign address, see page 21.

Important!
 You must enter your SSN(s) above.

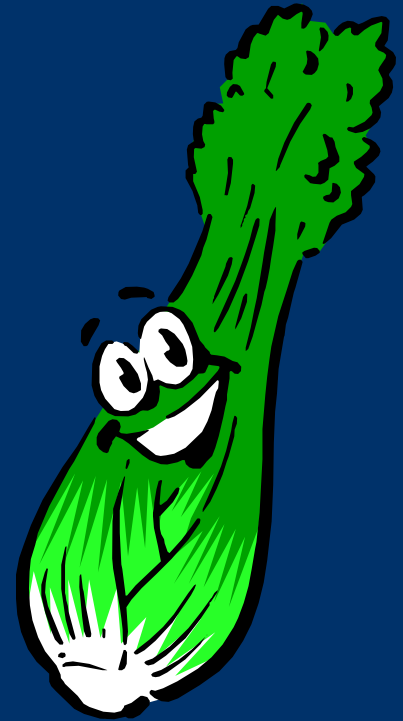
Filing Status
 Check only one box.
 1 ☐ Single
 2 ☐ Married filing jointly (even if only one had income)
 3 ☐ Married filing separately. Enter spouse's SSN above and full name here.
 4 ☐ Head of household (with qualifying person). (See page 21.) If the qualifying person is a child but not your dependent, enter this child's name here.
 5 ☐ Qualifying widow(er) with dependent child (year spouse died). (See page 21.)

Exemptions
 6a ☐ Yourself. If your parent (or someone else) can claim you as a dependent on his or her tax return, do not check box 6a.
 b ☐ Spouse.
 c **Dependents:**
 (i) First name Last name (ii) Dependent's social security number (iii) Dependent's relationship to you (iv) ☒ Qualifying child for child tax credit (see page 22).
 If more than five dependents, see page 22.
 No. of boxes checked on 6a and 6b
 No. of children on 6c who:
 • lived with you
 • did not live with you due to divorce or separation (see page 22)
 Dependents on 6c not entered above
 Add numbers on lines above

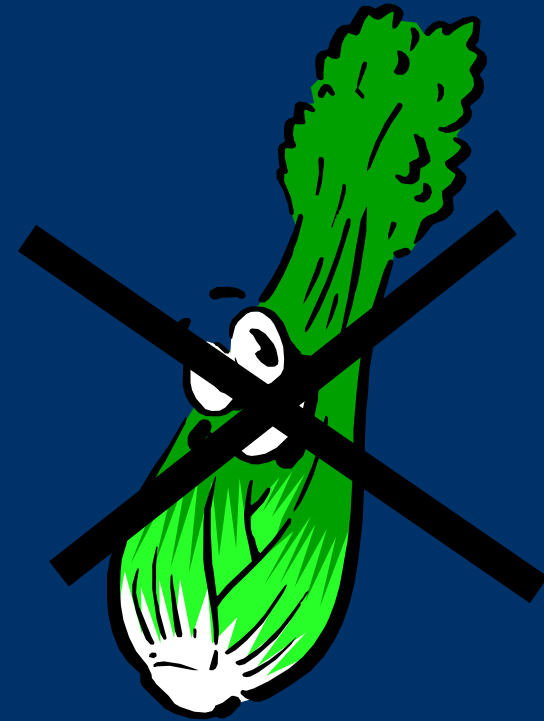
Income
 Attach Forms W-2 and W-2G here. Also attach Form(s) 1099-R if tax was withheld.
 7 Wages, salaries, tips, etc. Attach Form(s) W-2.
 8a Taxable interest. Attach Schedule B if required.
 b Tax-exempt interest. Do not include on line 8a.
 9 Ordinary dividends. Attach Schedule B if required.
 10 Taxable refunds, credits, or offsets of state and local income taxes (see page 24).
 11 Alimony received.
 12 Business income or (loss). Attach Schedule C or C-EZ.
 13 Capital gain or (loss). Attach Schedule D if required. If not required, check here.
 14 Other gains or (losses). Attach Form 4797.
 15a IRA distributions. 15b Taxable amount (see page 26).
 16a Pensions and annuities. 16b Taxable amount (see page 26).
 17 Rental real estate, royalties, partnerships, S corporations, trusts, etc. Attach Schedule E.
 18 Farm income or (loss). Attach Schedule F.
 19 Unemployment compensation.
 20a Social security benefits. 20b Taxable amount (see page 27).
 21 Other income. List type and amount (see page 29).
 22 Add the amounts in the far right column for lines 7 through 21. This is your **total income**.
 23 Educator expenses (see page 29).
 24 IRA deduction (see page 29).
 25 Student loan interest deduction (see page 31).
 26 Tuition and fees deduction (see page 32).
 27 Archer MSA deduction. Attach Form 8953.
 28 Moving expenses. Attach Form 3903.
 29 One-half of self-employment tax. Attach Schedule SE.
 30 Self-employed health insurance deduction (see page 33).
 31 Self-employed SEP, SIMPLE, and qualified plans.
 32 Penalty on early withdrawal of savings.
 33a Alimony paid. b Recipient's SSN.
 34 Add lines 23 through 33a.
 35 Subtract line 34 from line 22. This is your **adjusted gross income**.

6. Privacy Act, and Paperwork Reduction Act Notice, see page 76. Cat. No. 11320B Form **1040** (2002)

Celerity



Celerity



Celerity

- Effects degrade exponentially
- Interference from new behaviors
- Status hearings



Magnitude

EFFECTIVENESS

Habituation
Effects



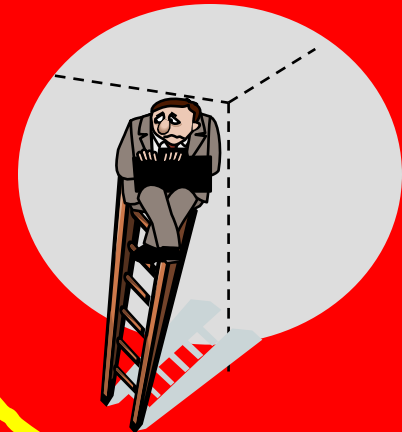
MINIMAL

Effective
Zone



MODERATE

Ceiling
Effects



SEVERE

MAGNITUDE OF SANCTION

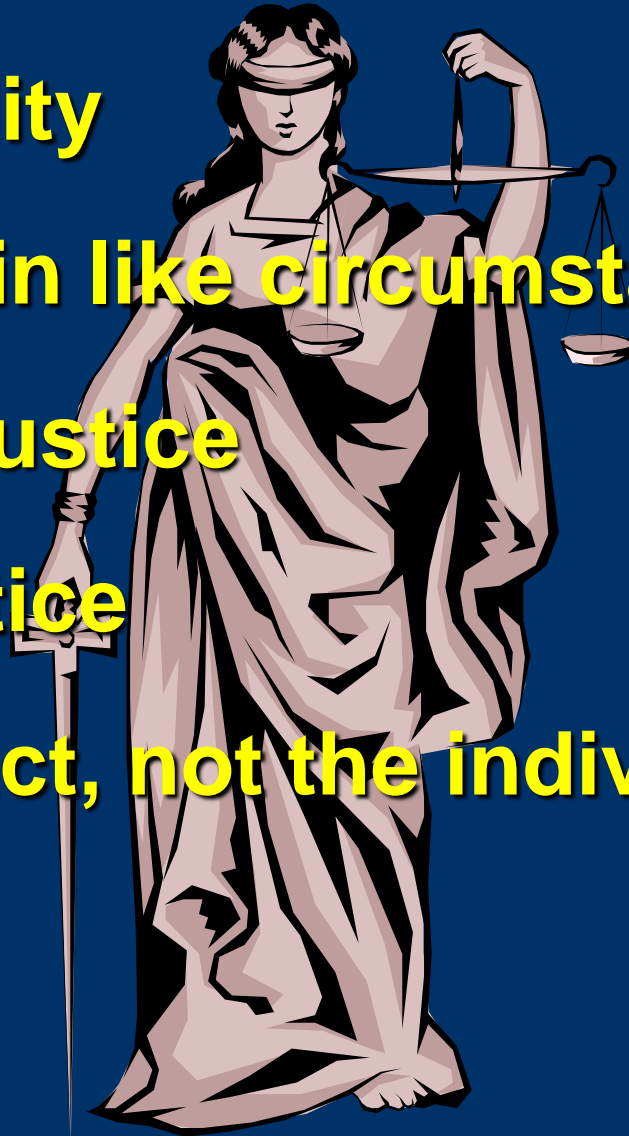
Escalation

- Rehearsal
- Intermediate responses
- Ratchet up or down



Fairness

- **Proportionality**
- **Like people in like circumstances**
- **Procedural justice**
- **Advance notice**
- **Punish the act, not the individual**



Quitting & Defiance

- **Unfairness**
- **Learned Helplessness**
 - **Predictability**
 - **Controllability**
- **Ratio Burden**



Target Behaviors

- Proximal vs. distal (shaping)
- Phase-specific
- Capture the behavior
- Clearly defined



Proximal vs. Distal Goals

Drug Dependence or Addiction

Proximal vs. Distal Goals

Drug Dependence or Addiction

1. Binge pattern
2. Cravings or compulsions
3. Withdrawal symptoms

Proximal vs. Distal Goals

Drug Dependence or Addiction

- 1. Binge pattern
 - 2. Cravings or compulsions
 - 3. Withdrawal symptoms
- } Abstinence is a distal goal

Proximal vs. Distal Goals

Drug Dependence or Addiction

- 1. Binge pattern
 - 2. Cravings or compulsions
 - 3. Withdrawal symptoms
- } Abstinence is a distal goal

Drug Abuse or Misuse

Proximal vs. Distal Goals

Drug Dependence or Addiction

- 1. Binge pattern
 - 2. Cravings or compulsions
 - 3. Withdrawal symptoms
- } Abstinence is a distal goal

Drug Abuse or Misuse } Abstinence is a proximal goal

Proximal vs. Distal Goals

Drug Dependence or Addiction

1. Binge pattern
 2. Cravings or compulsions
 3. Withdrawal symptoms
- } Abstinence is a distal goal

Drug Abuse or Misuse } Abstinence is a proximal goal

Collateral needs

- Dual diagnosis
- Chronic medical condition (e.g., HIV+, HCV, diabetes)
- Homelessness, chronic unemployment

Proximal vs. Distal Goals

Drug Dependence or Addiction

1. Binge pattern
2. Cravings or compulsions
3. Withdrawal symptoms



Abstinence is a distal goal

Drug Abuse or Misuse } Abstinence is a proximal goal

Collateral needs

- Dual diagnosis
- Chronic medical condition (e.g., HIV+, HCV, diabetes)
- Homelessness, chronic unemployment



Regimen compliance is proximal

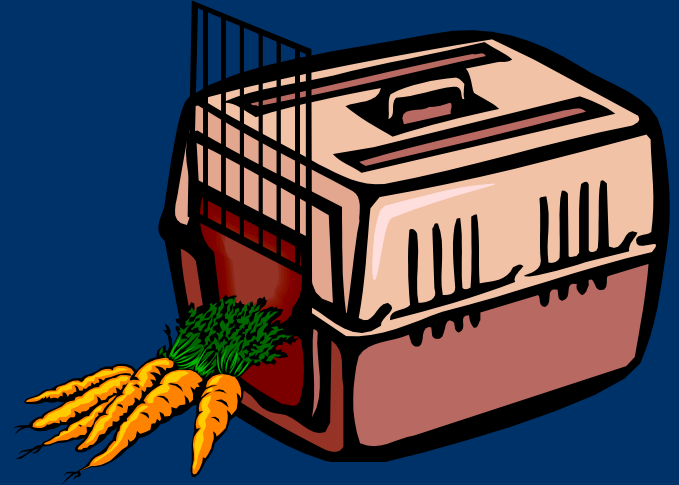
Pitfalls of Sanctions

- **Escape or avoidance**
- **Overgeneralization**
- **Superstition**
- **Doesn't teach what to do**
- **FR forever (no thinning)**



Pitfalls of the Carrot

- **Coddling**
- **Complacency**
- **Entitlement**
- **May reduce intrinsic motivation**



Certainty and celerity

Beware individualism

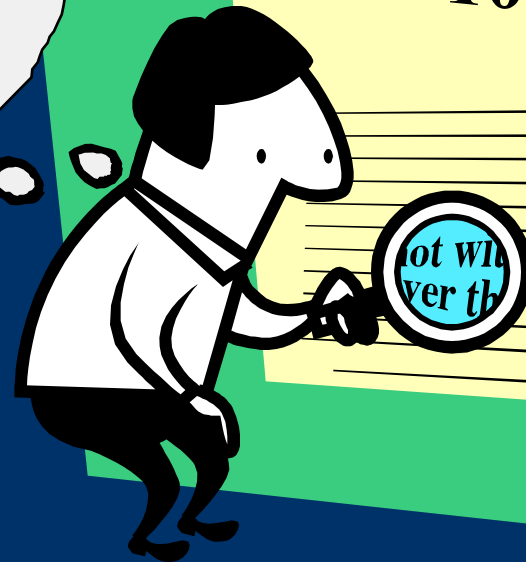
Higher magnitude for proximal behaviors

Lower magnitude for distal behaviors

Predictable and attainable goals

Reward desired behaviors

Expect more over time





Readings



Burdon WM et al (2001). Drug courts and contingency management. *Journal of Drug Issues*, 31, 73-90.

Harrell A & Roman J (2001). Reducing drug use and crime among offenders: The impact of graduated sanctions. *Journal of Drug Issues*, 31, 207-232.

Marlowe DB (2007). Strategies for administering rewards and sanctions. In JE Lessenger & GF Roper (Eds.), *Drug courts: A new approach to treatment and rehabilitation* (pp. 317-336). New York: Springer.

Marlowe DB (2008). Application of sanctions. In *Drug Court Quality Improvement Monograph*. Alexandria, VA: NDCI.

Marlowe DB & Wong CJ (2008). Contingency management in adult criminal drug courts (pp. 334-354). In ST Higgins, K Silverman & SH Heil (Eds.), *Contingency management in substance abuse treatment*. New York: Guilford.